Dart Aerospace Ltd. Monday, 6/5/2006 7:41:19 AM Kim Johnston Hser: **Process Sheet Drawing Name** : DOUBLER : CU-DAR001 Dart Helicopters Services Customer Job Number : 27347 : 11469 **Estimate Number** :NIA : D314098 **Part Number** P.O. Number . D3140 REV D1 : 6/5/2006 S.O. No. : NIM **Drawing Number** This Issue : N/A : NC **Project Number** Prsht Rev. : NA : D1 : MACHINED PARTS Type **Drawing Revision** First Issue AIU: : 26725 Material **Previous Run** Each **Due Date** : 6/30/2006 Qty: 4 Um: Written By Checked & Approved By Comment Est. Rev B New dwg rev. ecn781 06.04.18 EC **Additional Product** Job Number: Description: **Machine Or Operation:** Seq. #: 2024-T3 .032 sheet M2024T3S032 1.0 Comment: Qty.: 0.1796 sf(s)/Unit Total: 0.7182 sf(s)2024-T3 .032 sheet Matl: 2024-T3 (QQ-A-250/4) .032" thick Batch M 100 18 4 06 06 08 (M2024T3S.032) SHEAR 2.0 Comment: SHEAR thick grain along 3.810" Blank size: 3.810" x 8.43" x .032 HAAS CNC VERTICAL MACHINING #1 3.0 HAAS1 -Machine as per Folio FA226 Stack-of-10 Deburr break all unmarked sharp edges Form as per dwg (-98 opposite) INSPECT WORK TO CURRENT STEP 4.0 QC# Z Comment: INSPECT WORK TO CURRENT STEP Second Chack

Page 1

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W/O:		WORK ORDER CI	HANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
06-06-14	Y	TOOK 1 for the - 97'S					06-06-14
		·					

NCR:		WORK ORDER NON-CONFORMANCE (NCR)										
	1	Description of NC		Corrective Action Section B		Verification	Ammand	Approval				
DATE	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Section C	Approval Design Mgr	Approval QC Inspector				

Part No:	PAR #:	Fault Category:N	NCR:	Yes No DQA:	Date: 26/06 /	<u>5.</u>
NOTE: Date & initial all entries				QA: N/C Closed:	Date:	

Monday, 6/5/2006 7:41:19 AM Date: User: Kim Johnston **Process Sheet** Drawing Name: DOUBLER Customer: CU-DAR001 Dart Helicopters Services Job Number: 27347 Part Number: D314098 Job Number: Description: Seq. #: Machine Or Operation: HAND FINISHING RESOURCE #1 HAND FINISHING1 5.0 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVERSIO 6.0 QC3 POWDER COAT/CHEMICAL CONVERSION PACKAGING RESOURCE #1 7.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: DOCUMENT CONTROL DC 8.0 Comment: DOCUMENT CONTROL Inspection Level 21 Job Completion 06/06/13 \$ 4.2 FORM AS DER DUG D3140.
4.3 QC5 206.06.13 (3)

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W/O:			WOF	RK ORDER CHANGES		1 11 12 1			
DATE	STEP	PR	OCEDURE CHANG	GE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
			WORK OBDE	P NON CONFORMAN	SE (NCD				
NCR:			······	R NON-CONFORMANO	JE (NCR) 		·	
DATE	ATE STEP Section A Initial Action Description	Action Description Design Mgr	Sign &		cation ion C	Approval Design Mgr	Approval QC Inspector		
-			Design Nigi	Design Wgr	Date				
		-							
Part No);	PAR #:	Fault Category:	NCR: Y	es No	DQA:		Date:	
NOTE: D	ate & initia	l all entries		C	A: N/C CI	sed.		Date:	

H:\forms\Quality Assurance\approved forms\NCRWO revC



DESIG	in DS	DRAWN BY RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED M	APPROVED	DRAWING NO. REV. D
1	111	7/1	D3140 SHEET 1 OF 7
DATE			TITLE SCALE
05.	11.23		DOOR NTS
Α		02.04.18	NEW ISSUE
В		03.01.23	REMOVE -65/-81/-83; ADD -301/-303
С		04.11.08	CHANGE DELASTEK SPEC. TEC-77; ADD PART MARKING; ADD NOTES 11, 12, 13; CHANGE ANGLE -95/-97/-98 TO 106°
D		05.11.23	ADD -103/-104/-105/-106;

PA 06.03.31 1.75 WAS 1.88; 4.75 WAS 4.13



QTY -05	QTY -06	QTY -07	QTY -08	QTY -09	QTY -10	PART NUMBER	DESCRIPTION
X						D3140-05	DOOR
	Х					D3140-06	DOOR
	<u> </u>	Х			1	D3140-07	DOOR
			Х			D3140-08	DOOR
		1		Х		D3140-09	DOUBLER ASSEMBLY
			1		Х	D3140-10	DOUBLER ASSEMBLY
3	3					D3140-57	PAD
1	1					D3140-59	PAD
2	2					D3140-61	PAD
2	2					D3140-63	PAD
		1	1			D3140-69	PAD
		1	1			D3140-71	PAD
		1	1			D3140-73	PAD
		1	1			D3140-75	PAD
		1	1			D3140-77	PAD
		1	1			D3140-79	PAD
				. 1	1	D3140-85	ANGLE
1	1					D3140-87	DOUBLER
				1	1	D3140-89	DOUBLER
		1				D3140-91	DOUBLER
			1			D3140-92	DOUBLER
3	3					D3140-95	DOUBLER
1						D3140-97	DOUBLER
	1					D3140-98	DOUBLER
		1	1			D3140-99	DOUBLER
		2	2			D3140-101	DOUBLER
		1				D3140-103	DOUBLER
			1			D3140-104	DOUBLER
		1				D3140-105	DOUBLER SHOP COPY
			1			D3140-106	DOUBLER RETURN TO
1	1					D3140-241	DOUBLER TO THE TOTAL TO THE PRINT
1		1				D3140-301	DOUBLER TONTROLLE
	1		1			D3140-303	
							RIVET WITHOUT NO
				5	5	MS20426AD3-4	RIVET

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DESIGN DS	DRAWN BY RF		ROSPACE LTD y, ontario, canada
CHECKED	APPROVED []	DRAWING NO.	REV. D
#	di	D3140	SHEET 2 OF 7
DATE		TITLE	SCALE
05.11.23		DOOR	NTS



COMPOSITE LAYUP & BONDING I.A.W. DELASTEK PROCESS SPEC. TEC-77
MATERIAL STORAGE & HANDLING TO BE I.A.W. DART QSI 006
MAIN LAYUP USES FIBERCOTE E-761/7781 EPOXY FIBERGLASS.
FILL WITH EPOCAST 87269 OR MAGNOBOND 77 A & B AND MA560 FOAM/ NB-51/30 FOAM



FINISH: DUPONT HIGHBUILD GREY PRIMER 1144-S

MAKE PARTS IN ACCORDANCE WITH THE FOLLOWING TOOLS/MOLDS:

PART	TOOL
D3140-05	B30-23000-01T
D3140-06	B30-23000-02T
D3140-07	B30-23000-03T
D3140-08	B30-23000-04T
D3140-57	B30-23000-57T
D3140-61	B30-23000-61T
D3140-63	B30-23000-63T
D3140-69	B30-23000-69T
D3140-71	B30-23000-71T
D3140-73	B30-23000-73T
D3140-75	B30-23000-75T
D3140-77	B30-23000-77T
D3140-79	B30-23000-79T
D3140-89	D3140-89T1
D3140-301	D3140-301T1
D3140-303	D3140-303T1

ALL DIMENSIONS IN INCHES





MATERIAL: 2024-T3 (QQ-A-250/4) 0.032 THICK (M2024T3S.032) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 2024-T3 (QQ-A-250/4) 0.020 THICK (M2024T3S.020) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 5052-H32/H34 (QQ-A-250/8) 0.040 THICK (M5052H32S.040) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: POLIMEX TR75 1" THICK 4.5 LB KLEGECELL



MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (M6061-T6S.063) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



DOUBLER TO SIT ON TOP OF FOAM AT THIS LOCATION



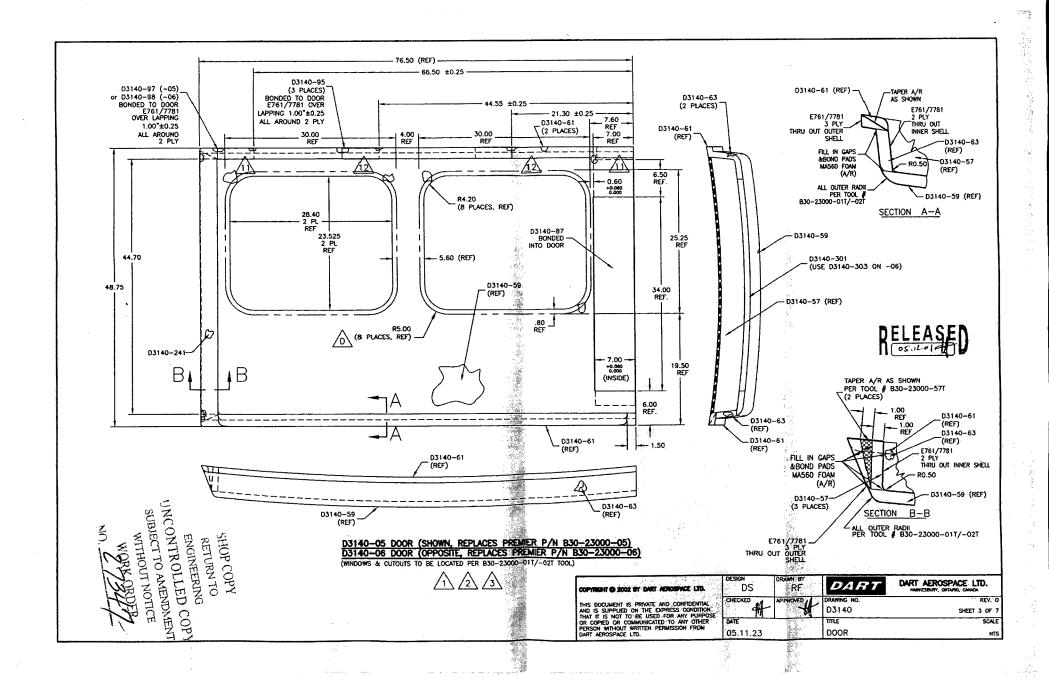
DOUBLER TO BE RECESSED FLUSH INTO FOAM AT THIS LOCATION

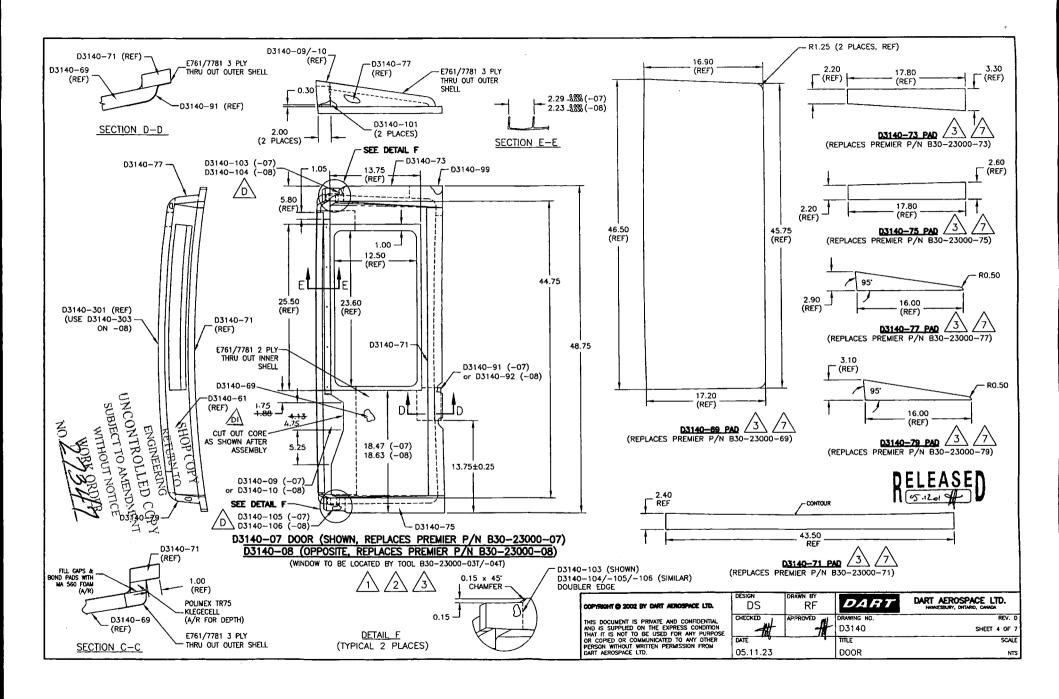
RUBBER STAMP WITH DART P/N D3140-05/-06/-07/-08 USING MIL-STD-130

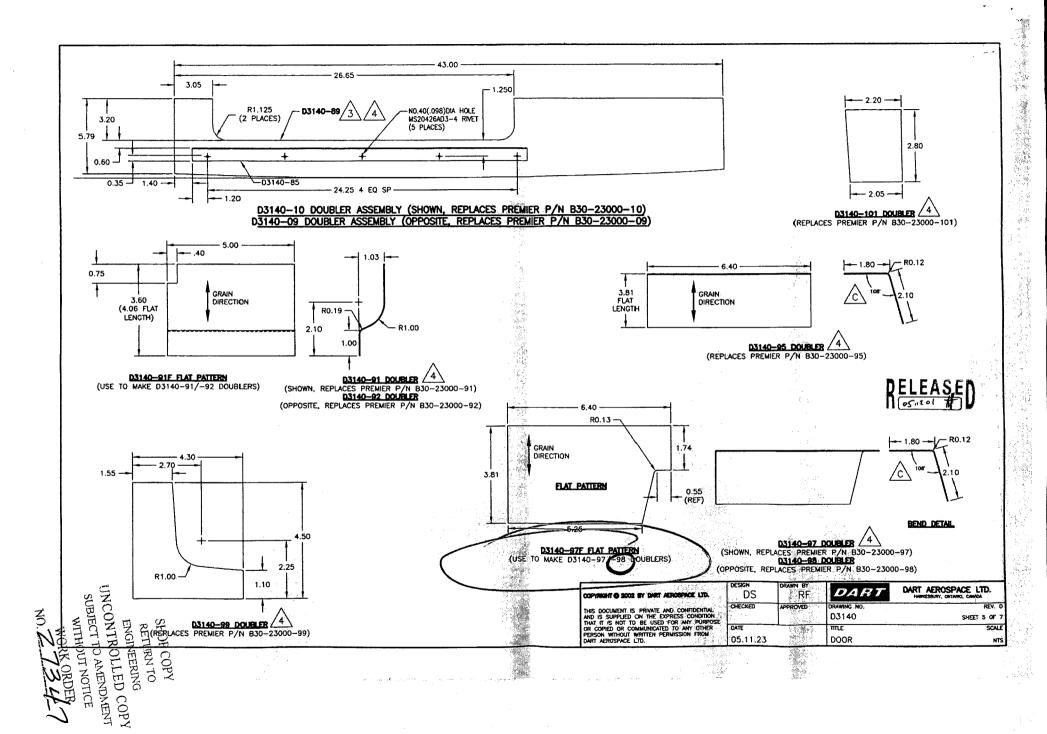
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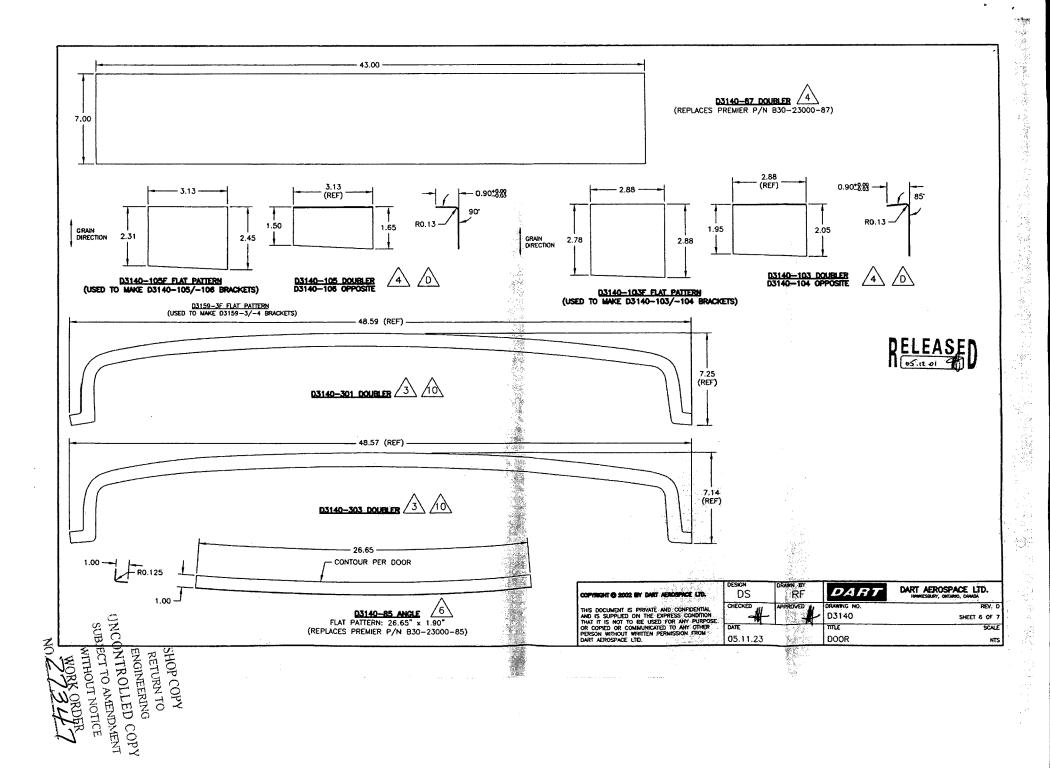
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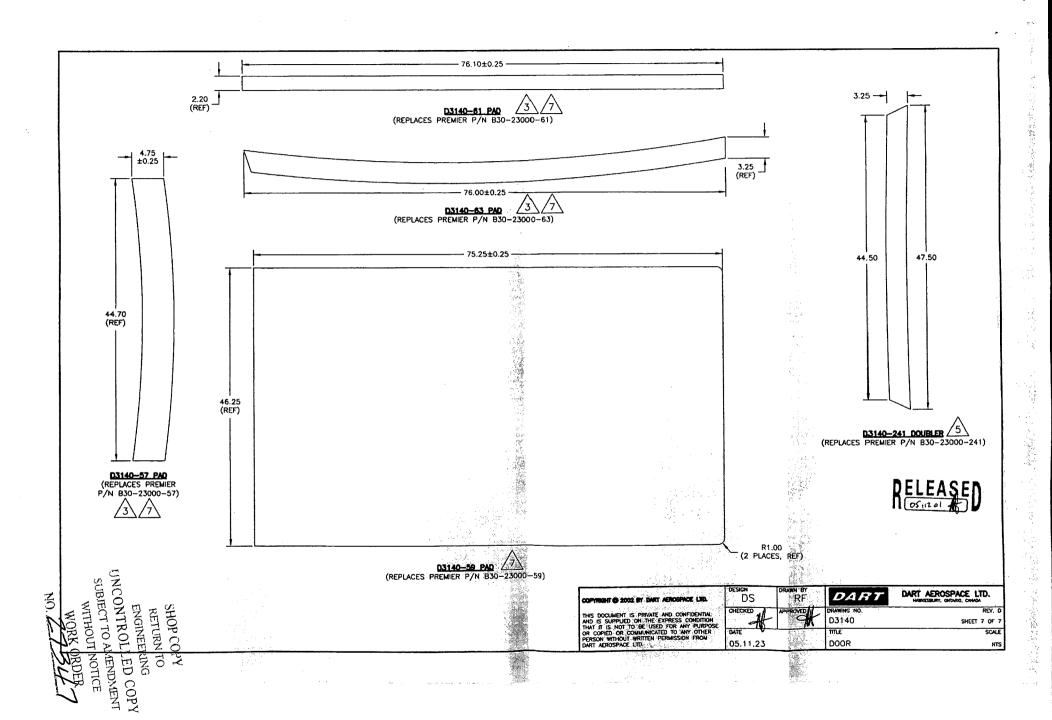
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DART AEROSPAC	E LTD	Work Order:	27347
Description:		Part Number:	3140-98
Inspection Dwg:	Rev: 🔰		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article X Prototype

5.25 +)-0.030 5.25 \ 1.74 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
1.74 "	5,25	+/-0.030	5.25	1		Vern	
6.40 Verd	1.74			J		į.	
6.40 / Verd	3.81	1,	3.80	√			
	6.40	1, 32	6.40	/			
	·						
		·					
		:					
					.		

		_//		
Measured by: M/ M/	Audited by:		Prototype Approval:	
Date: 06 03	Date:	00012	Date:	

Rev	Date	Change	Revised by	Approved
Α		New Issue	KJ/JLM	